

APPLICATION TRANSFER REQUEST FOR S.N. 09/558,182

EC

Section I. TRANSFER REQUEST BY (PRINT NAME) A. King

Date 8/2/07

TO: Art Unit 2875

Class/sub 362

FROM: A.U. 3632

Class 248

REASON:

Prior art cited in specification suggest that  
this application is more appropriate for class 362.

Gatekeeper concurrence \_\_\_\_\_

Hand carried: Personally accepted by \_\_\_\_\_

Section II a. DISPOSITION BY RECEIVING TC

By: T. Sember

A.U. 2875

Date 08/15/2010

☐ ACCEPTED BY RECEIVING T.C.

NOT ACCEPTED

☒ Forward to receiving TC Post Classifier

☒ Non-classification issue/other, return to Originating TC/AU 3632

4B for YN 4/4/01

REASON:

Light source is never positively claimed

Section II b. DISPOSITION BY RECEIVING TC POST CLASSIFIER

☒ This dispute was resolved. Forward to TC/AU 3632 Class/Sub 248 Post Classifier \_\_\_\_\_ Date \_\_\_\_\_

Concurring A. Sember Date 4/18/07

☐ This dispute was not resolved, forward to DISPUTE RESOLUTION PANEL

Post Classifier Assessment:

Claimed invention within scope of class 248  
noting 5024406 4034946

Gatekeeper Concurrence \_\_\_\_\_

Post Classifier \_\_\_\_\_

Date \_\_\_\_\_

Section III. DISPOSITION BY DISPUTE RESOLUTION PANEL

Date \_\_\_\_\_

Panel Decision: Forward to Technology Center / Art Unit \_\_\_\_\_ Class/sub \_\_\_\_\_

REASON:

Panel Member \_\_\_\_\_ Concurring Panel Member \_\_\_\_\_

☐ This application MAY NOT be returned to the dispute resolution panel. THIS IS A FINAL DISPOSITION.



US005797673A

**United States Patent** [19]

Logan et al.

[11] Patent Number: **5,797,673**[45] Date of Patent: **Aug. 25, 1998****[54] EMERGENCY LIGHTING UNIT/EXIT SIGN COMBINATION**

[75] Inventors: **Mark Campbell Logan**, Doraville;  
**Andrew Edward Masters**,  
Lawrenceville; **Edwin Lewis Hull**,  
Conyers, all of Ga.

[73] Assignee: **NSI Enterprises, Inc.**, Atlanta, Ga.

[21] Appl. No.: **561,956**

[22] Filed: **Nov. 22, 1995**

[51] Int. Cl.<sup>6</sup> ..... **F21V 33/00**

[52] U.S. Cl. .... **362/234; 40/570; 362/20;**  
**362/250; 362/370; 362/812**

[58] Field of Search ..... **362/226, 20, 234,**  
**362/249, 250, 368, 370, 812; 40/570**

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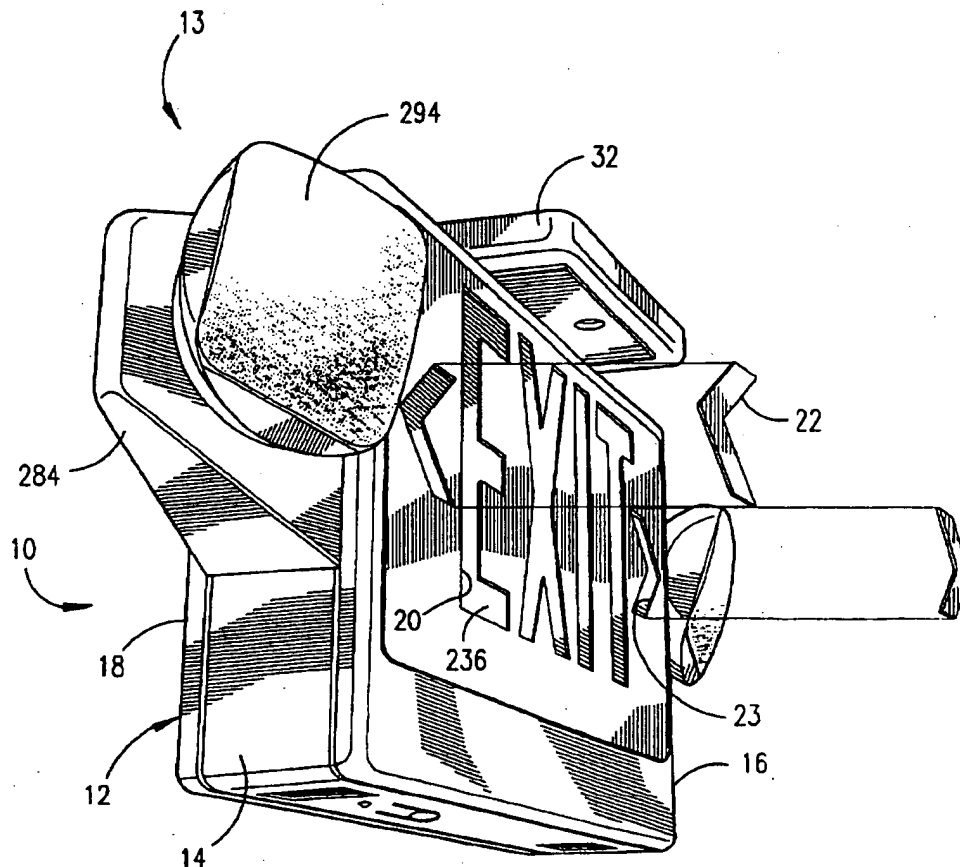
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*Primary Examiner*—Stephen F. Husar

*Attorney, Agent, or Firm*—Kenneth E. Darnell

**[57] ABSTRACT**

An emergency lighting fixture combining the functions of an illuminated sign such as an exit sign and an emergency lighting unit integrated into one housing onto which one or more emergency light can be mounted at predetermined locations of the housing, the combined emergency lighting structure providing both exit location information and ambient emergency lighting in a single cooperatively operating device. The present device replaces bulky prior combinations of discrete exit signs and emergency lighting units which have been assembled together essentially as individual devices without integration into a single housing or without substantial integration of operational features, the housing of the present device being only slightly larger than standard exit signage. The present fixture is preferably formed from light weight materials such as polycarbonate/ABS or sheet metal configured to mount in tension internal weight such as weight due to enlarged battery mass and the like as well as externally mounted emergency lights. Manufacture of the present fixture is improved by the ability to mold major portions of the fixture from suitable polymeric materials, thereby allowing formation of substantial portions of the fixture located internally of the housing integrally with the housing to substantially reduce the number of parts necessary to be assembled together in an assembly situation.

**56 Claims, 22 Drawing Sheets**

combo fixture 10 as provided in the drawings. However, it is to be understood that the invention can be embodied other than as is described and shown herein. The invention can particularly be used in the construction of emergency lighting fixtures other than combination exit sign/emergency unit fixtures. Accordingly, the scope of the invention is defined by the recitations of the appended claims.

What is claimed is:

1. A combination exit sign and emergency lighting unit having at least one emergency lighting unit assembly mountable to different locations of the exit sign portion of the combination and being repositionable between said locations, the combination comprising first means formed on the exit sign portion of the combination and second means formed on the at least one emergency lighting unit assembly, the first means cooperating with the second means for mounting of said at least one emergency lighting unit assembly to said locations and for removal of said at least one emergency lighting unit assembly from said locations.

2. The combination exit sign and emergency lighting unit of claim 1 and further comprising a single housing, the housing and the assembly being substantially formed of a plastic material, the single housing bearing the weight of the combination to support the combination.

3. The combination exit sign and emergency lighting unit of claim 2 wherein the assembly is mounted to the housing exteriorly thereof, the housing containing the remaining portions of the combination.

4. The combination exit sign and emergency lighting unit of claim 2 wherein the housing supports the weight of the combination substantially in tension.

5. The combination exit sign and emergency lighting unit of claim 2 and further comprising a central ladder support disposed above the location of the housing having the greatest weight load, the ladder support extending from effective connection with a central upper portion of the housing at an upper end of the ladder support to an effective connection with the weight load at the lower portion of the ladder support.

6. The combination of claim 2 and further comprising means for snap-fit mounting of a battery within the interior of the housing.

7. The combination of claim 2 and further comprising means for reducing the visual effects of mounting portions of a battery interiorly of the housing in a shadowing relation to indicia formed in exterior walls of the housing.

8. The combination of claim 2 and further comprising an emergency lamp and a lamp support into which the lamp is snap-fitted for mounting thereof, a portion of the lamp support being discontinuous to deform on insertion of the lamp into the lamp support to allow snap-fitting mounting of the lamp to the support.

9. The combination of claim 2 and further comprising means for variably capturing an option operable with the combination to store said option within the interior of the housing.

10. The combination of claim 2 and further comprising compartment means for storing options operable with the combination to store said options within the interior of the housing.

11. The combination of claim 2 and further comprising compartment means for housing electrical circuitry operable with the combination to store said circuitry within the interior of the housing.

12. The combination of claim 2 and further comprising means for mounting a diffusion panel to a face of the housing in only one disposition.

13. The combination of claim 1 wherein the emergency lighting unit assembly comprises means for removably mounting the assembly to the combination, means mountable to the mounting means for swiveling motion relative thereto, means carried by the swiveling means for providing a track, means mountable for movement on the track and for providing a support, reflective means carried by the support, a lamp carried by the support and lens means mountable to the support, the assembly having a range of motion allowing light from the lamp to be directed in a multiplicity of directions.

14. The combination of claim 13 wherein the several means are formed of a plastic material and snap-fit together.

15. The combination of claim 13 wherein the swiveling means and the support means are formed of spherical segments mountable concentrically with each other to form a low profile.

16. The combination exit sign and emergency lighting unit of claim 1 and further comprising means for mounting either one of two batteries of differing dimensions within the interior of a battery compartment formed in the combination, the battery compartment being located in a lower portion of the interior of the combination with a lower wall thereof forming a floor of the battery compartment, the batteries being supported on said floor, comprising:

first snap means located on an upper wall of the compartment and spaced a first distance essentially equal to the thickness of a first one of the batteries from a rear wall of the compartment, the first one of the batteries fitting against the rear wall of the compartment being held thereby by the first snap means; and,

second snap means located in spaced relation on each of opposing side walls of the battery compartment, the second snap means being spaced a second distance from the rear wall essentially equal to the width of the second one of the batteries, the second one of the batteries being snap-fit into place against the rear wall of the compartment and held thereby by the second snap means.

17. The combination exit sign and emergency lighting unit of claim 16 and further comprising means for reducing the visual effects of portions of said batteries mounted in shadowing relation to indicia formed on exterior walls of the combination.

18. The combination exit sign and emergency lighting unit of claim 16 wherein wires located within the combination and passing in proximity to the battery compartment are passed in front of the battery.

19. The combination exit sign and emergency lighting unit of claim 17 wherein light sources within the interior of the combination are located above either one of the batteries to reduce shadowing of the indicia.

20. The combination exit sign and emergency lighting unit of claim 1 and further comprising means for mounting the emergency lighting unit assembly to the combination, means mountable to the mounting means for swiveling motion relative thereto, means carried by the swiveling means for providing a track, means mountable for movement on the track and for providing a support, reflective means carried by the support, a lamp carried by the support and lens means mountable to the support, the assembly having a range of motion allowing light from the lamp to be directed in a multiplicity of directions.

21. A mounting for a lamp socket and associated light bulb, the socket snap-fitting into the mounting for electrical connection to a source of power capable of operating the light bulb, the mounting being joined to support structure, comprising:

at least two mounting elements joined to the support structure in spaced apart relation, each element having a snap-tab at an end thereof proximate to the end of the other element having said snap-tab, the elements being capable of flexing movement which increases the separation between the snap-tabs;

a pair of walls formed on each of the mounting elements at ends of said elements nearest the snap-tabs, two of the walls of each pair extending toward each other between the mounting elements, the other two of the walls of each pair extending outwardly from the mounting elements, the heights of the walls being similar to the base portions of the sockets; and,

lateral arm elements having snap-tabs formed on respective distal ends thereof extending one each from each of the mounting elements at locations of the mounting elements opposite the first-mentioned snap-tabs, the socket being snap-fitted into the mounting and being prevented from dislodgement therefrom in a first direction by the first-mentioned snap-tab and in a second direction normal to said first direction by the second-mentioned snap-tab.

22. The mounting of claim 21 wherein the mounting holds a DC emergency light bulb and the mounting is formed integrally with a housing frame of an illuminated sign such as an exit sign having a battery located therein, at least upper portions of the battery extending into a legend formed on a base of the sign, the mounting holding the light bulb in a location above the battery to reduce shadowing of the battery in said legend.

23. In an illuminated sign such as an exit sign having a housing, an emergency lighting unit assembly mountable to said housing exteriorly thereof, the emergency lighting unit assembly comprising means for removably mounting the assembly to the housing, means mountable to the mounting means for swiveling motion relative thereto, means carried by the swiveling means for providing a track, means mountable for movement on the track and for providing a support, reflective means carried by the support, a lamp carried by the support and lens means mountable to the support, the assembly having a range of motion allowing light from the lamp to be directed in a multiplicity of directions.

24. In the sign of claim 23 wherein the several means are formed of a plastic material and snap-fit together.

25. In the sign of claim 23 wherein the swiveling means and the support means are formed of spherical segments mountable concentrically with each other to form a low profile.

26. In the sign of claim 23 and further comprising aperture means formed in the assembly for cooling of the assembly.

27. In the sign of claim 23 and further comprising stop means carried by the assembly for preventing damage to wiring extending into the assembly from the housing.

28. In an illuminated sign such as an exit sign having at least one emergency lighting unit assembly mountable to different locations of the sign having a pattern of slots formed at said locations, torsion snap means formed on the emergency lighting unit assembly cooperating with the slots to be received thereinto to mount the assembly to the sign.

29. In the sign of claim 28 wherein the torsion snap means comprise torsion snap elements having a hook-like conformation, the body of each snap element being angled to positively engage the slot into which said snap element is received.

30. In a combination exit sign and emergency lighting unit, the improvement comprising apparatus for mounting either one of two batteries of differing dimensions within the

interior of a battery compartment of the exit sign, the battery compartment being located in a lower portion of the interior of the sign with a lower wall of the sign forming a floor of the battery compartment, the batteries being supported on said floor, comprising

first snap means located on an upper wall of the compartment and spaced a first distance essentially equal to the thickness of a first one of the batteries from a rear wall of the compartment, the first one of the batteries fitting against the rear wall of the compartment being held thereby by the first snap means; and,

second snap means located in spaced relation on each of opposing side walls of the battery compartment, the second snap means being spaced a second distance from the rear wall essentially equal to the width of the second one of the batteries, the second one of the batteries being snap-fit into place against the rear wall of the compartment and held thereby by the second snap means.

31. In the combination exit sign and emergency lighting unit of claim 30 wherein the improvement further comprises means for reducing the visual effects of portions of said batteries mounted in shadowing relation to indicia formed on exterior walls of the sign.

32. In the combination exit sign and emergency lighting unit of claim 30 wherein wires located within the sign and passing in proximity to the battery compartment are passed in front of the battery.

33. In the combination exit sign and emergency lighting unit of claim 31 wherein light sources within the interior of the sign are located above either one of the batteries to reduce shadowing of the indicia.

34. In a combination exit sign and emergency lighting unit, the improvement comprising a housing and option devices being housed within the housing, and means for variably capturing at least one of the option devices to store said option device within the interior of the housing.

35. In the combination exit sign and emergency lighting unit of claim 34 wherein the improvement further comprises compartment means for storing option devices within the interior of the housing.

36. In the combination exit sign and emergency lighting unit of claim 34 wherein the capturing means comprise upper and lower plates mounted in space relation to the housing, each of the plates having a lip formed on oppositely disposed free edges of said plates, the lips extending inwardly of the spaced plates toward each other, the plates springing back toward each other when biased apart, each of the option devices being of a thickness greater than the spacing between the lips and being receivable between the plates and being held thereby due to the spring-like action of the plates, the plates holding option devices of variable thickness.

37. In a combination exit sign and emergency lighting unit, the improvement comprising a housing formed of a frame and at least one face panel having indicia formed thereon and a diffusion panel mountable to the face panel to form a background for the indicia, the diffusion panel having first and second planar faces, the first face being intended to be positioned adjacent interior walls of the at least one face panel, the diffusion panel further having upper and lower edges, the upper edge being intended to be positioned in proximity to upper edges of the at least one face panel, comprising means carried by the at least one face panel for mounting the diffusion panel to the face panel with the first face of the diffusion panel positioned adjacent the interior walls of the at least one face panel and the upper edge of the

diffusion panel positioned in proximity to upper edges of the at least one face panel, the diffusion panel being mountable to the face panel in only one orientation of the diffusion panel.

38. In a combination exit sign and emergency lighting unit, the improvement comprising a housing capable of supporting the weight of the sign substantially in tension, the housing being formed of a plastic material, all elements comprising the combination including lamping, emergency power sourcing and circuitry being carried by the plastic housing.

39. In the combination exit sign and emergency lighting unit of claim 38 and further comprising a central ladder support disposed above the location of the housing having the greatest weight load, the ladder support extending from effective connection with a central upper portion of the housing at an upper end of the ladder support to an effective connection with the weight load at the lower portion of the ladder support.

40. In the combination exit sign and emergency lighting unit of claim 39 wherein the sign is mounted to a surface centrally of a major wall surface of the housing to a canopy mounted to said surface, and further comprising means for latching the canopy to the ladder support.

41. In a combination exit sign and emergency lighting unit, the improvement comprising a housing capable of supporting the weight of the sign substantially in tension, a central ladder support disposed within the housing above the location of the housing having the greatest weight load, the ladder support extending from effective connection with a central upper portion of the housing at an upper end of the ladder support to an effective connection with the weight load at the lower portion of the ladder support.

42. In the combination exit sign and emergency lighting unit of claim 41 wherein the housing is formed of a plastic material.

43. In the combination exit sign and emergency unit of claim 41 wherein the sign is mounted to a surface centrally of a major wall surface of the housing to a canopy mounted to said surface, and further comprising means for latching the canopy ladder support.

44. A combination exit sign and emergency lighting unit having at least one emergency lighting unit assembly mountable to an exit sign portion of the combination, the combination comprising a single housing and wherein the at least one lighting unit assembly is mounted to the housing with at least portions thereof being located exteriorly of the housing, the housing containing the remaining portions of the combination.

45. The combination exit sign and emergency lighting unit of claim 44 wherein the housing and the assembly are substantially formed of a plastic material, the single housing bearing the weight of the combination to support the combination.

46. The combination exit sign and emergency lighting unit of claim 45 wherein the housing supports the weight of the combination substantially in tension.

47. The combination exit sign and emergency lighting unit of claim 44 and further comprising means for mounting

the emergency lighting unit assembly to the combination, means mountable to the mounting means for swiveling motion relative thereto, means carried by the swiveling means for providing a track, means mountable for movement on the track and for providing a support, reflective means carried by the support, a lamp carried by the support and lens means mountable to the support, the assembly having a range of motion allowing light from the lamp to be directed in a multiplicity of directions.

48. The combination exit sign and emergency lighting unit of claim 44 and further comprising means for removably mounting the emergency lighting unit assembly to said housing, means mountable to the mounting means for swiveling motion relative thereto, means carried by the swiveling means for providing a track, means mountable for movement on the track and for providing a support, reflective means carried by the support, a lamp carried by the support and lens means mountable to the support, the assembly having a range of motion allowing light from the lamp to be directed in a multiplicity of directions.

49. The combination exit sign and emergency lighting unit of claim 48 wherein the swiveling means and the support means are formed of spherical segments mountable concentrically with each other to form a low profile.

50. The combination exit sign and emergency lighting unit of claim 49 wherein the mounting means is formed with a circular aperture into which at least portions of the spherical segments are received in order to form a low profile.

51. In an illuminated sign such as an exit sign having a housing, an emergency lighting unit assembly mountable to said housing exteriorly thereof, the emergency lighting unit assembly comprising means for mounting the assembly to the housing, means mountable to the mounting means for swiveling motion relative thereto, means carried by the swiveling means for providing a track, means mountable for movement on the track and for providing a support, reflective means carried by the support, a lamp carried by the support and lens means mountable to the support, the assembly having a range of motion allowing light from the lamp to be directed in a multiplicity of directions.

52. In the sign of claim 51 wherein the several means are formed of a plastic material and snap-fit together.

53. In the sign of claim 51 wherein the swiveling means and the support means are formed of spherical segments mounted concentrically with each other to form a low profile.

54. In the sign of claim 51 and further comprising aperture means formed in the assembly for cooling of the assembly.

55. In the sign of claim 51 and further comprising stop means carried by the assembly for preventing damage to wiring extending into the assembly from the housing.

56. In the sign of claim 53 wherein the mounting means is formed with a substantially circular aperture for receiving the spherical segments at least partially therein to form a low profile.

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# United States Patent [19]

Ketcham

[11] Patent Number: 5,024,406

[45] Date of Patent: Jun. 18, 1991

## [54] DEVICE FOR HANGING OUTDOOR CHRISTMAS LIGHTS

[76] Inventor: Raymond H. Ketcham, 169 Baur St., North Babylon, N.Y. 11704

[21] Appl. No.: 473,621

[22] Filed: Jan. 31, 1990

[51] Int. Cl.<sup>5</sup> ..... F21V 21/00

[52] U.S. Cl. .... 248/149; 248/185; 248/291; 362/250; 439/573

[58] Field of Search ..... 248/73, 149, 154, 185, 248/220.2, 221.3, 224.3, 291; 439/573, 754, 562, 575; 24/673, 674; 403/93, 97; 313/49, 51; 362/152, 250, 429, 806, 145

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Primary Examiner—Ramon O. Ramirez

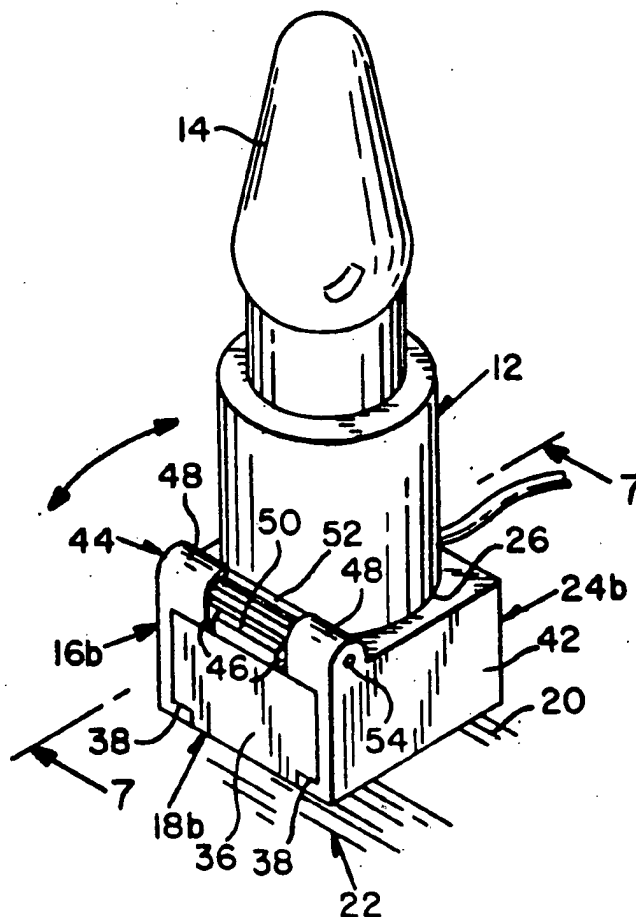
Assistant Examiner—Robert A. Olson

Attorney, Agent, or Firm—Richard L. Miller

## [57] ABSTRACT

A hanging outdoor christmas light holder for a lamp socket fixture is provided and consists of a removably attaching member having a first component that is permanently attachable to a static structure on a building, while a second mating component is carried on underside of the lamp socket fixture so that the lamp socket fixture can be quickly and simply attached thereto and removed therefrom.

3 Claims, 2 Drawing Sheets



[54] MOUNTING DEVICE FOR LIGHTS

[75] Inventor: Judson Zimmer, Jr., Gloversville, N.Y.  
[73] Assignee: N. A. Taylor Co. Inc., Gloversville, N.Y.

[21] Appl. No.: 717,145

[22] Filed: Aug. 24, 1976

[51] Int. Cl.<sup>2</sup> ..... F16M 11/12  
[52] U.S. Cl. .... 248/183; 248/278;  
403/157; 403/315  
[58] Field of Search ..... 248/178, 183, 184, 185,  
248/186, 82, 84, 86, 88, 284, 291, 278;  
403/157, 158, 315, 316, 319, 354; 240/81 BC,  
81 BD, 81 BE; 16/171, 176

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Primary Examiner—Marion Parsons, Jr.

Attorney, Agent, or Firm—Bierman & Bierman

[57]

ABSTRACT

A mount for removably mounting a light to a base member comprising a pair of clevis members. One clevis member is provided with a pair of upstanding spaced arms in which a stem is journaled for rotation and linear translation. A bushing having teeth thereon is mounted on the stem and translatable therewith. The second clevis is provided with a pair of depending arms defining a groove therebetween which fits over the stem within the upstanding arms of the first clevis. At least one face of the second clevis contains teeth which cooperate with the teeth on the bushing to secure one clevis to the other, the bushing being translatable away from the second clevis to permit repositioning and removal of the second clevis.

17 Claims, 5 Drawing Figures

